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The Gazette of India

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No. 20] NEW DELHI, SATURDAY, MAY 15, 1982 (VAISAKHA 25, 1904)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
(Notifications and Notices issued by the Patent Office relating to Patents and Designs)

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 15th May 1982

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017

7th April 1982

385/Cal/82. Hoechst Aktiengesellschaft. Process for the manufacture of water-soluble dyestuffs and for their use as fiber-reactive dyestuffs for dyeing and printing fiber materials. (Divisional date 26th October, 1978).

386/Cal/82. Satya Ranjan Panja.—Composite S proof tile.

387/Cal/82. Central Fuel Research Institute and Eastern Carbons of "Snch Milan". Equipment for continuous devoltilisation of coal.

388/Cal/82. Central Mine Planning & Design Institute Ltd. (a subsidiary of coal India Limited), and Eastern Carbons. Continuous carboniser for the production of domestic coke from coal.

389/Cal/82. Hoechst Aktiengesellschaft. Process for removing molybdenum from aqueous salt solutions.

390/Cal/82. BBC Brown, Boveri & Company Limited. Bypass valve, controlled by turbine pressure, for turbocharged internal combustion engines.

391/Cal/82. Mitsubishi Denki Kabushiki Kaisha. Arc-suppressing apparatus for circuit breaker.

392/Cal/82. Mitsubishi Denki Kabushiki Kaisha. Ebullition cooling apparatus.

393/Cal/82. Dr. Werner Freyberg Chemische Fabrite Delitia Machf. Applicator apparatus for pest control agents. (Divisional date 18th June, 1979).

8th April 1982

394/Cal/82. Fabrika farmaceutskihi hemishikh proiozvoda n. sol. o. OOUR "ZDRAVLJE". A process for the isolation of (+)-usnic acid from usnea barbata 1.

395/Cal/82. Snamprogetti S.P.A. Process for the decomposition of alkyl tert-alkyl ethers.

396/Cal/82. Snamprogetti S.P.A. Process for preparing tertiary alkyl ethers.

397/Cal/82. Laporte Industries Limited. Metal oxide slurries. (10th April, 1981).

398/Cal/82. The B. F. Goodrich company. Process for polymerization of vinyl monomers with improved kinetic rate profile.

12th April 1982

399/Cal/82. Kenneth E. Beswick Limited. Electrical fuse. (10th April, 1981. U.K.).

400/Cal/82. Umberto Monacelli. "U-shaped fastening elements.

401/Cal/82. Maschinenfabrik Rieter ag. Method and apparatus for changing cans on spinning preparatory machines, particularly on draw frames.

402/Cal/82. Sandoz Ltd. Improvements in or relating to organic compounds. (13th April, 1981. U.K.).

13th April 1982

403/Cal/82. Fypol Consultants Limited Building Panel (25th April, '81).

404/Cal/82. Fypol Consultants Limited. Building component. (25th April, 1981).

405/Cal/82. Hoechst Aktiengesellschaft. Process for the preparation of 5-(2' Hydroxy -3'-Naphtroylamino)-Benzimidazolone-(2). (21st December, 1978).

406/Cal/82. Eaton Corporation. Load voltage-current displacement regulator motor control system.

407/Cal/82. The Fertilizer (Planning & Development) India Ltd. A continuous process for the production of guanidine nitrate.

408/Cal/82. Lucien Ferraz & Cie. Safety system against making metal structure live.

409/Cal/82. Wavin B. V. Apparatus for coiling flexible stretched materials, particularly tubes or cables.

410/Cal/82. The Dow Chemical Company. Reversible phase change compositions of calcium chloride hexahydrate with potassium chloride.

14th April 1982

411/Cal/82. Itera Components AB. Method and means for the manufacture of a wheel construction of plastic material for vehicles or similar.

412/Cal/82. Mitsubishi Denuki Kabushiki Kaisha. Drawer-Type circuit breaker.

413/Cal/82. National Aeronautics and Space Administration. Pulsed thyristor trigger control circuit.

414/Cal/82. Westinghouse Electric Corporation. Vehicle propulsion motor control apparatus.

415/Cal/82. Beloit Corporation. Dryer drum siphon.

416/Cal/82. Premium Coke Manufacturing Co. Pvt. Ltd. Novel process and equipment for dry quenching of hot coke discharged from coke oven (S)/carboniser (S)".

15th April 1982

417/Cal/82. N. V. Tranusworld Marine Agency Cy S.A. Self-locking Sling.

418/Cal/82.—Institut Francais Du Petrole. Device for increasing the temperature of a geological formation intraversed by a bore hole.

419/Cal/82. Linde Aktiengesellschaft. Process and installation for the separation of hydrogen sulfide and carbon dioxide from gaseous mixture.

APPLICATIONS FOR PATENT FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, 3RD FLOOR, KAROL BAGH, NEW DELHI-5

22nd March 1982

235/Del/82. Rubber and Plastics Research Association of Great Britain," Extruder mixer".

236/Del/82. Ruhrchemie Aktiengesellschafts, "A method of producing a pumpable suspension of coal in water".

23rd March 1982

237/Del/82. Alsthon-Atlantique, "A supply circuit for electronic apparatus at a high electric potential".

238/Del/82. Armco Inc. "Insulative coatings for electrical steels".

239/Del/82. The General Electrical Company, "Locating faults in power transmission systems". (April 3, 1981).

240/Del/82. Scripto, Inc, "Method of making and the composition for an initially erasable ink for a ball point writing instrument".

24th March 1982

241/Del/82. Shri Ram Institute for Industrial Research, "A process for the preparation of polystyrene plastic materials".

242/Del/82. Shri Ram Institute for Industrial Research, "A process for the preparation of interpolymers".

243/Del/82. Shri Ram Institute for Industrial Research, "A process for the polymerization of vinyl aromatic compounds".

244/Del/82. Shri Ram Institute for Industrial Research, "A process for the preparation of graft copolymers".

245/Del/82. Shri Ram Institute for Industrial Research, "A process for the preparation of high impact polymers of vinyl aromatic compounds.".

246/Del/82. Shri Ram Institute for Industrial Research, "A process for the production of polymeric materials".

247/Del/82. Shri Ram Institute for Industrial Research, "A process for the preparation of polystyrene type resins".

248/Del/82. Shri Ram Institute for Industrial Research, "A process for the preparation of impact resistant thermoplastic blends".

249/Del/82. Shri Ram Institute for Industrial Research, "A process for the preparation of a polymerization product of vinyl aromatic compounds".

25th March 1982

250/Del/82. Boliden Aktiebolag, "Method for the extraction and recovery of mercury from gas containing sulphur dioxide and gaseous elemental mercury".

251/Del/82. Council of Scientific & Industrial Research, "An acoustic liquid fuel burner".

252/Del/82. Council of Scientific & Industrial Research, "An improved process for the preparation of 3-amino benzo (6, 7)-quinazolin-4-one".

253/Del/82. Council of Scientific & Industrial Research, "Process for the preparation of secondary plasticizer material for use in plastic industry".

254/Del/82. Council of Scientific & Industrial Research, "An improved process for preparation of 4-terpineol".

26th March 1982

255/Del/82. Mineral Deposits Ltd., "Improved spiral separator". (March 26, 1981).

256/Del/82. Punjab Tractors Ltd., "A process for the manufacture of alcohol".

257/Del/82. Punjab Tractors Ltd., "A process for the manufacture of alcohol".

258/Del/82. Universal Enviroscience Pvt. Ltd., "A process for the anaerobic digestion of organic wastes".

259/Del/82. Universal Enviroscience Pvt. Ltd., "An apparatus".

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH, TODI ESTATES, 3RD FLOOR, LOWER PAREL (WEST), BOMBAY-13

20th March 1982

62/Bom/82. Ashok Rogha & others. Pre cleaner for internal combustion engines, compressors & the like devices.

63/Bom/82. Subodh Waman Desai, Fixed volume pipette with an overflow accumulation arrangement.

22nd March 1982

64/Bom/82. Sudhakar Achyut Joglekar. Domestic Electric Hot Water Shower Geyser.

65/Bom/82. Nitin Balakrishna Bapat. Improved cloth washer, drier with utensil washer.

23rd March 1982

66/Bom/82. Devendra S. Naik. Efficient Stenter.

24th March 1982

67/Bom/82. Sudhir Malhotra. Telephone Amblifier-cum-telephone stand.

68/Bom/82. Sudhir Malhotra. An auto grind attachment unit for domestic mixer-*cum*-grinder (Mixies).

25th March 1982

69/Bom/82 Pressure Cookers and Appliances Limited. Improvements in or relating to pressure cookers.

70/Bom/82. Pressure Cookers and Appliances Limited. Pressure cookers.

71/Bom/82. Pressure Cookers and Appliances Limited. Improvements in or relating to vent weights of pressure Cookers.

72/Bom/82. Pressure Cookers and Appliances Limited. Vent weights for Pressure Cookers.

73/Bom/82. Pressure Cookers and Appliances Limited, Iddly cooking appliance.

74/Bom/82. Shankar Vithoba Patil. An improvement in ploughing attachment to tractor.

75/Bom/82. Godrej Soaps Limited. An improved method for the manufacture of unhydrogenated edible vegetable oil or oils & hydrogenated edible vegetable oil or oils of uniform grain consistency.

29th March 1982

76/Bom/82. Hamendra Jagmohandas Sheth. Improvements in and modification of performance of Lancashire Boiler by incorporating thermic fluid heater to the same and eliminating bricks works setting of the same.

77/Bom/82. Pradeep Khasherao Pagade. An improved and safe electrical geyser with adjustable wattage for obtaining continuous flow of hot water.

78/Bom/82. Anand Govind Bhole. Package water treatment plant.

31st March 1982

79/Bom/82. Piloo Dhunjishaw Sidhwa. Shock absorbers for vehicles.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

31st March 1982

64/Mas/82. E. G. Rao. Improvements to solar energy collection & utilisation devices.

65/Mas/82. Widia (India) Limited. A tooling attachment with an exchangeable cutting tool.

66/Mas/82. Dr. R. Thangappan. Anode assemblies for electrolytic cells.

1st April 1982

67/Mas/82. T. A. Vijayan. An air cooling device using metal sheets as evaporator of water and having two fan blades mounted before and behind the evaporate on the same shaft.

68/Mas/82. S. Guhanandhan. A roller wet grinder.

3rd April 1982

69/Mas/82. R. Srinivasan. Easy-switch.

70/Mas/82. S. Ramachandran & R. Narasimhan. Apparatus for renewal of track with concrete sleepers.

7th April 1982

71/Mas/82. T. Sumathi. Improvement in or relating to domestic cloth washing-*cum*-wet grinding machine.

8th April 1982

72/Mas/82. C. I. S. Rao. Improvements or modifications of a crusher for milling sugar-cane.

ALTERATION OF DATE

149865
1379/Cal/80 } Antidated 15th May, 1978.

149866
1380/Cal/80 } Antidated 15th May, 1978.

COMPLETE SPECIFICATION ACCEPTED

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CLASS 116C & G. 149853.

Int. Cl.-B65g 43/00; B65g 15/00.

EQUIPMENT FOR JOINTING AND REPAIRING CONVEYOR BELTS.

Applicants : WAGENER & CO. IN DER GRASLAKE 20, D-5830 SCHWELM, FEDERAL REPUBLIC OF GERMANY.

Inventor : ROLF SCHRODER.

Application No. 771/Cal/78 filed 12 July, 1978.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

5 Claims.

Equipment for jointing and repairing conveyor belts comprising upper press transverse girders, lower press transverse girders, connecting tie-rods and press platens which can be pressed against one another by pressure-medium pads, in which the press platen comprises a pressure sheet, a cover sheet, a press platen frame and a heating arrangement associated with the pressure sheet, and the press transverse girders deform under the influence of the pressure forces, the pressure sheet with the press platen frame being formed as a pressure medium chamber in which the heating arrangement is installed, open towards the cover sheet and featuring a device for the inflow and outflow of pressure medium, and the cover sheet being deformable similarly to the press transverse girders and attached to the press platen frame in pressure-tight manner via a connecting bellows.

Comp. Specn. 8 Pages. Drg. 1 Sheet.

CLASS 101F. 149854.

Int. Cl.-E02 9/08.

A MECHANISM FOR TAPPING ENERGY FROM WAVES.

Applicant : JATINDRA NATH BISWAS, 682AE SALT LAKE SECTOR I, CALCUTTA-64, WEST BENGAL, INDIA.

Inventor : JATINDRA NATH BISWAS.

Application No. 860/Cal/78 filed 5 August, 1978.

Complete Specification Left 29 January, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

4 Claims.

A device for extracting mechanical energy from sea waves comprising of a float to move up and down vertically due to wave action, being mounted on a shaft through a central opening in the float the said shaft being fixed vertically on the sea bed; two ends of a wire rope of suitable length are connected at the top and bottom of the float, after the said rope being passed through a number of pullies and wound several round around a shaft to cause intermittent opposite rotational movement of the said shaft, called hereinafter 'power shaft', with the up and down movement of the float due to wave action thus transmitting the energy to the power shaft; this opposite intermittent rotational movement is made undirectional on a second shaft having a torsional helical spring of commensurate capacity fitted at its end through gear and pinion arrangement along with the use of a third shaft under which arrangement, a pinion and a gear both fitted on the power shaft, will work only one at a time each being effective for one directional movement while slipping for the other; the said pinion on the power shaft works directly a gear of the said 2nd shaft while for the opposite motion of the power shaft, the gear works another gear of similar dimension fitted on 3rd shaft causing opposite motion to the 3rd shaft on which a pinion is fitted which works another gear fitted on the

2nd shaft to rotate the 2nd shaft in the same direction as is caused by the earlier opposite movement on the power shaft, thus setting two trains of transmission of power to work alternately to rotate the second shaft unidirectionally; this unidirectional movement of the second shaft is utilised to wind the spring fitted at its end from which pressure/energy is transmitted through the other end of the spring at its rim to a small cylindrical body with one end closed with a disc, the spring being housed in it, to which disc a fourth shaft is connected at the centre thus causing continuous rotation of the said shaft, with uniform release of pressure/energy from the helical torsional spring, with the use of a regulating device, to drive the generator shaft.

Comp. Specn. 9 pages. Drg. 1 sheet

CLASS 145A & 182C. 149855.

Int. Cl.-D21C 5/00; C13K 1/02; 9/00; B27K 9/00.

PROCESS FOR THE PRODUCTION OF GLUCOSE, XYLOSE, CELLULOSE AND LIGNIN FROM LIGNOCELLULOSIC VEGETABLE RAW MATERIALS.

Applicants : PROJEKTIERUNG CHEMISCHE VERFAHRENSTECHNIK GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, OF TEN EICKEN 12, 4030 RATINGEN 1, FEDERAL REPUBLIC OF GERMANY.

Inventors : MICHAEL SINNER, DR. HANS-HERMANN DIETRICHS, JURGEN PULS, WERNER SCHWEERS AND KARL-HEINZ BRACHTHAUSER.

Application No. 898/Cal/78 filed 16 August, 1978.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

15 Claims.

A process for the production of glucose, xylose cellulose and lignin from lignocellulosic vegetable raw materials i.e. plant materials cellulose and lignin by treatment with a solvent mixture consisting of water and lower aliphatic alcohols and/or ketones at elevated temperatures and pressures, characterized in that; (a) the vegetable raw materials are subjected to a chemical pretreatment with a mixture of water and lower aliphatic alcohols and/or lower aliphatic ketones at a temperature of from 100 to 190°C for a period of from 4 hours to 2 minutes, the temperature and duration of treatment being so chosen that less than about 20% by weight, preferably less than about 10% by weight of the main component of the hemicelluloses contained in the vegetable raw material are split and go into solution, components which are soluble without chemical decomposition being dissolved, as are the dissociation products of those substances which are chemically decomposed in conditions before 20% of the main component of the hemicelluloses are split; (b) the residue is separated; (c) the latter is treated with a mixture consisting of approximately equal parts by volume of water and of lower alphatic alcohols and/or ketones and optionally proton donors at temperatures from 120 to 220°C preferably 170 to 220°C for a period of from 6 hours to 2 minutes preferably from 180 to 2 minutes, the temperature and duration of treatment being so chosen that the main component of the hemicelluloses is split in the solvent used to soluble carbohydrates; (d) fibrous materials are separated from the solution; (e) oligosaccharides and polysaccharides still present in the solution freed from fibrous materials are hydrolysed by addition of acid as herein defined at temperature as herein defined and, subsequently, the organic solvent and lignin are separated by conventional method; (f) monosaccharide obtained by hydrolysis of the main component of the hemicelluloses, is recovered by conventional method from the aqueous solution; and (g) fibrous materials obtained from step (d) is split to glucose by method as herein described and this is recovered.

Comp. Specn. 48 Pages. Drg. 5 Sheets.

CLASS 194C. 149856.

Int. Cl.-H01j 17/00.

DEVICE FOR GENERATING ULTRAVIOLET RADIATION.

Applicants : BBC BROW, BOVERI & COMPANY, LIMITED, OF BADEN, SWITZERLAND.

Inventors : DR. GEROLD BRANDLI, AND HANS NOTZ.

Application No. 1093/Cal/78 filed 5th October, 1978.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

10 Claims.

Device for generating ultraviolet radiation of high intensity of radiation, in which the radiation can be generated thermoemissively, in a discharge tube which transmits UV radiation and is provided with a filling of mercury/rare gas and has an internal diameter of between 4 and 20 mm, by means of a gas discharge which is wall-stabilised and takes place between two electrodes under a pressure of mercury between 5×10^{-3} and 5×10^{-1} mm Hg and a pressure of rare gas between 0.01 and mm Hg and at a current density of the discharge current of the gas discharge between 1 and 25 A/cmm², the two ends of the discharge tube being joined to tubular envelopes for receiving the electrodes, characterized in that the rare gases provided are argon, krypton and/or xenon under a gas pressure(p) which, in the operating state of the device, is between 0.01 and 0.5 mm Hg, that the discharge tube (1) and the envelopes (2, 2') consist of doped quartz glass, the doping being such that the lines at 185 and 194 nm are almost completely absorbed and the line at 254 nm is transmitted almost without loss, and that an appendix-like piece of tube (5), which is to receive the condensed mercury and the temperature of which is adjustable between 48 and 65°C, is provided on the discharge tube.

Comp. Specn. 16 Pages. Drg. 4 Sheets.

CLASS 40F. 149857.

Int. Cl. C04b, 41/00.

IMPROVEMENTS RELATING TO THE TREATMENT OF HAZARDOUS WASTE.

Applicants : STABLEX A.G. OF BAARERSTRASSE 10, CH-6300 ZUG, SWITZERLAND.

Inventor : CHRISTOPHER LEE CHAPPELL.

Application No. 1132/Cal/78 filed 19 October, 1978.

Convention date October 19, 1977 (43507/77) U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

7 Claims. No drawings.

A method of treating a liquid hazardous waste as herein described which may contain a significant proportion of an organic contaminant such method comprising the steps of adding to the liquid waste calcium-containing cement and an aluminium silicate and/or an alumino-silicate thereby forming a flowable slurry and thereafter allowing the slurry to set into a rigid rock-like mass and adding to the slurry an amount of active carbon sufficient to reduce to an acceptable level the leaching of the waste from the rock-like mass.

Comp. Specn. 18 Pages. Drg. Nil.

CLASS 85G & K. 149858.

Int. Cl.-F23b 7/00; F23K 3/02; F23n 1/02; F27b 1/26.

COAL FIRED FURNACE.

Applicants : COMBUSTION ENGINEERING, INC. OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventors : DONALD JAMES FREY AND THOMAS BERTON HAMILTON.

Application No. 1240/Cal/78 filed 16 November, 1978.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

5 Claims.

A tangentially fired pulverized coal furnace having walls, and a plurality of fuel and air introducing means located in the walls, each comprising : a cylindrical coal nozzle with its axis directed toward an imaginary circle in said furnace; means for passing a flow of primary air and coal through said coal nozzle; means for selectively spreading the flow of coal leaving said nozzle; a secondary air duct surrounding said coal nozzle; means for passing flow of secondary air through said secondary air duct, whereby the secondary air intersects the spread flow of coal; and means for selectively varying the air flowing through said secondary air duct between a swirling flow pattern and a parallel flow pattern.

Comp. Specn. 9 Pages. Drg. 2 Sheets.

CLASS 108C. 149859.

Int. Cl.-C21C 5/30.

METHOD OF IMPROVEMENT OF THE HEAT-BALANCE IN THE REFINING OF STEEL.

Applicants : EISENWERK-GESELLSCHAFT MAXIMILIANSHUTTE MBH, 8458 SULZBACH-ROSENBERG, WEST GERMANY.

Inventor : DR. KARL BROTZMANN.

Application No. 1305/Cal/78 filed 7 December, 1978.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

12 Claims

An improved method of making refined pig iron in a converter with improved heat balance and utilizing increased proportion of scrap, which exhibits underneath the surface of the bath nozzles for the introduction of oxygen having shrouding by protective medium and which has at its disposal oxygen top-blowing devices above the surface of the bath, characterized in that during a considerable part of the refining time at least 20% to 80% of the amount of oxygen for refining is fed to the melt through one or more gas jets directed onto the surface of the bath, which act in the convertor gas volume as free jets, and the remaining amount of the oxygen is blown in underneath the surface of the bath.

Comp. Specn. 26 Pages. Drg. 1 Sheet.

CLASS 161D 149860.

Int. Cl.-E01f 9/06.

A REFLECTING STUD FOR A REFLECTING ROAD MARKING DEVICE.

Applicants : SAMARENDRA KUMAR SENGUPTA, OF 85/1 B, BANK PLOT, CALCUTTA-700031, STATE OF WEST BENGAL, INDIA.

Inventor : SAMRENDRA KUMAR SENGUPTA.

Application No. 1385/Cal/78 filed 27 December, 1978.

Complete Specification Left December 27, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

9 Claims

A reflecting road stud for a reflecting road marking device comprising a piece of glass of elongated shape having curved surfaces on its end faces, one of the said faces having rendered light reflecting, a resilient casing closed at one end fitted over the light reflecting end of the stud and a metal casing or cap fitted over the resilient casing for protecting the said resilient casing and the light reflecting portion of the stud, the opposite end of the stud being exposed.

Comp. Specn. 11 Pages. Drg. 1 Sheet.

CLASS $32F_3(d)$ & $55E_4$ 149861.

Int. Cl. C07C 171/00, 169/08; 169/14; 169/26.

A PROCESS FOR PRODUCING A NOVEL PROSTAGLANDIN DERIVATIVES OF A CONJUGATE OF PROSTAGLANDIN STEROID HORMONE.

Applicants : KUREHA KAGAKU KOGYO KABUSHIKI KAISHA OF NO. 9-11, 1-CHOME, NIHONBASHI HORIDOME-CHO, CHUO-KU, TOKYO 103, JAPAN.

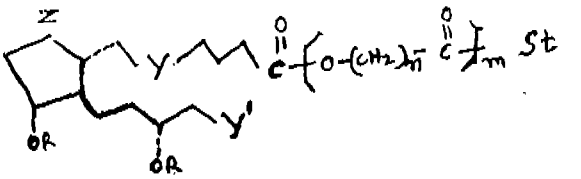
Inventors : SATORU ENMOTO, KIRO ASANO, HUMIO TAMURA AND HIROMITSU TANAKA.

Application No. 13/Cal/79 filed 5 Jan., 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

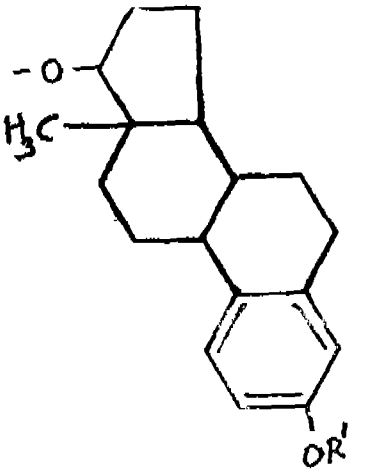
9 Claims.

A process for producing a novel prostaglandin derivatives of a conjugate of prostaglandin-steroid hormone having the general formula X



Formula X

wherein R is a hydrogen atom or an acetyl group; Z is—OR or=O; n is 1 or 2; m is 0 or 1; Y is—CH_2—CH_2—or cis—CH=CH—; Y' is—CH_2CH_2 CH_2CH_3 or—CH=$CHCH_2CH_3$ and St or acylated St is selected from the groups having the formula (II) to (IX)



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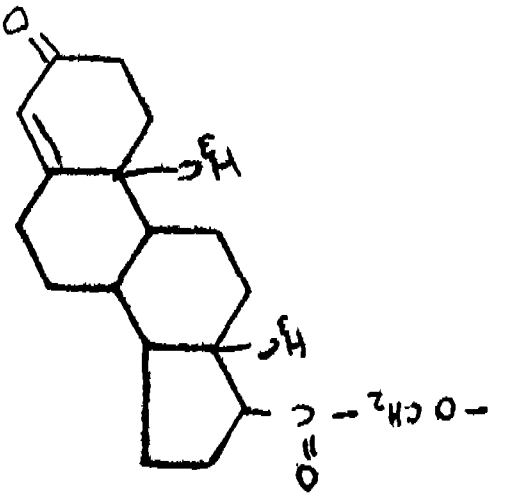

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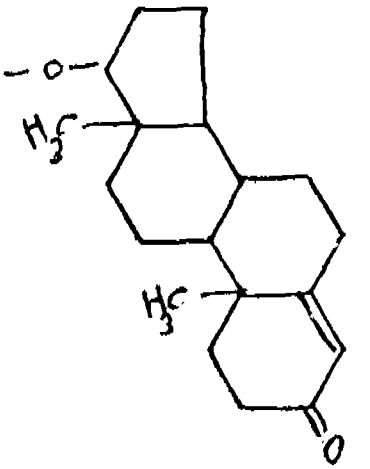

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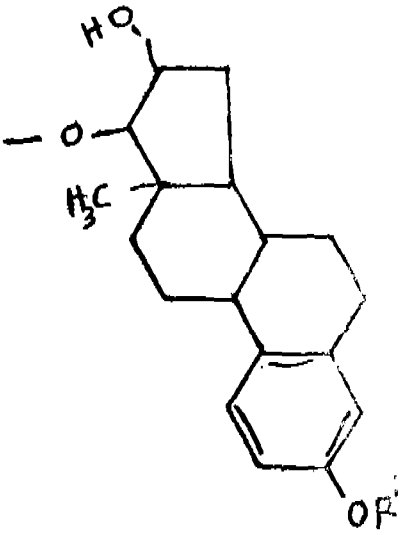
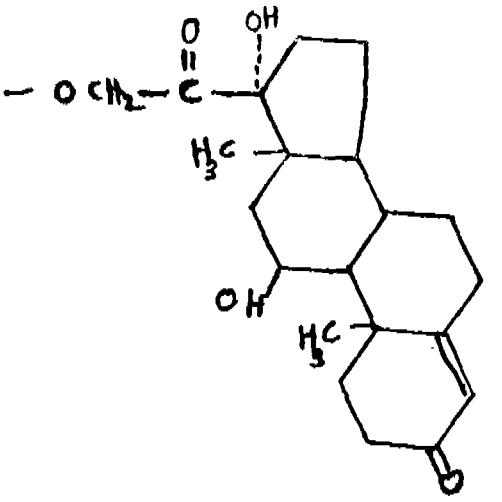
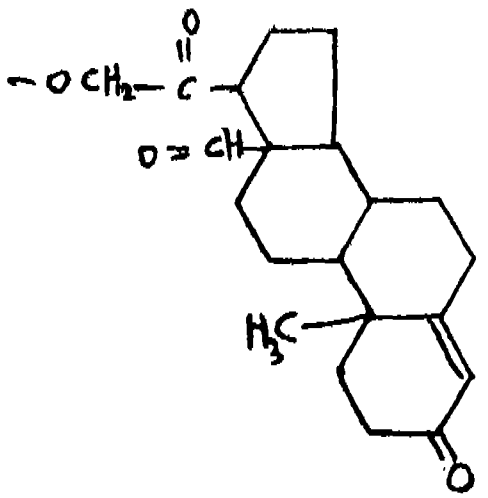


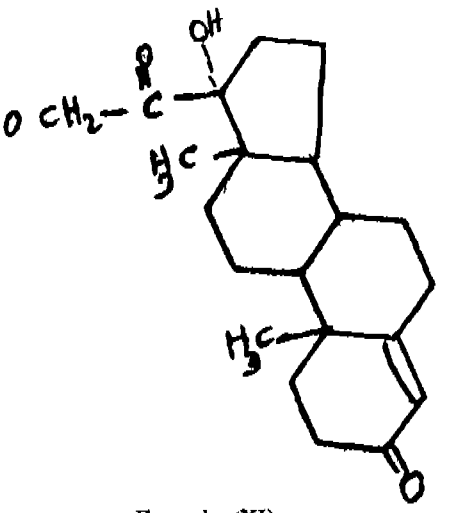
Formula (V)



Formula (VIII)



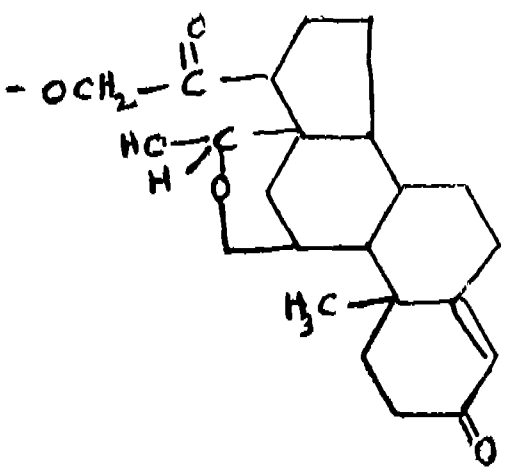
Formula (VI)



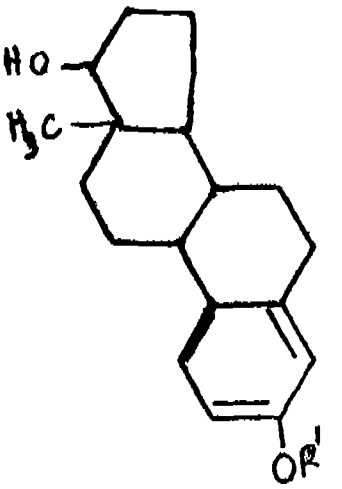
Formula (XI)

wherein R′ is a hydrogen atom, an acetyl group, a propionyl group or a benzoyl group which comprises;

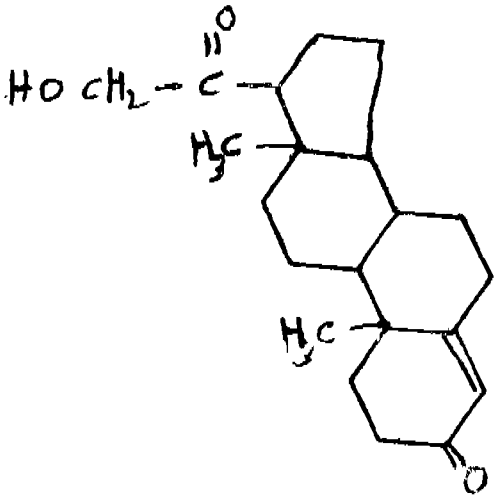
A. reacting a H-St or an acylated H-St selected from the groups having the formula (II′) to (IX′)



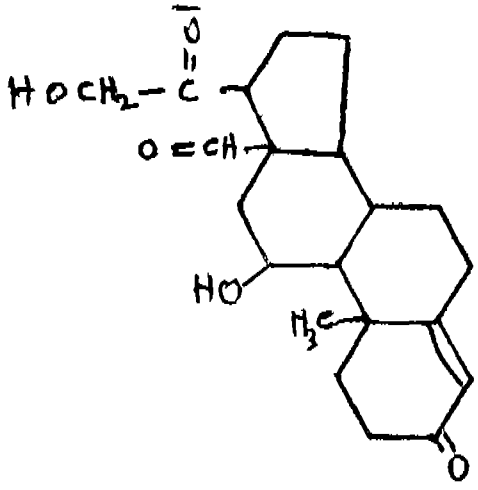
Formula (VII)



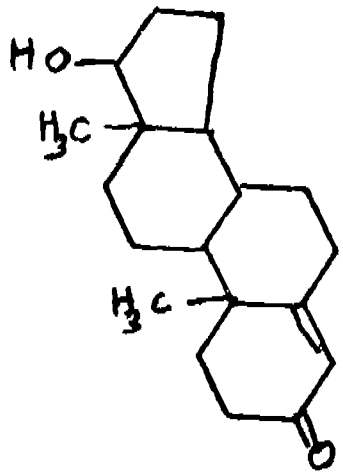
Formula (II′)



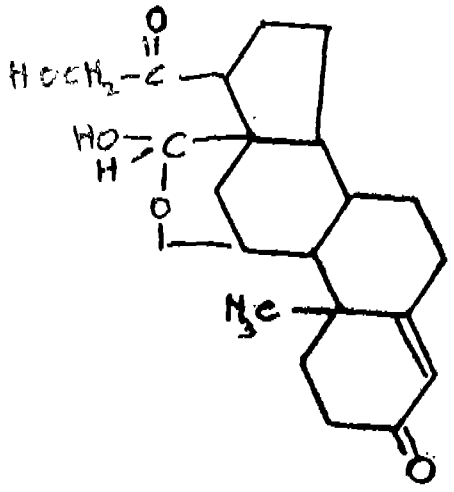
Formula (III')



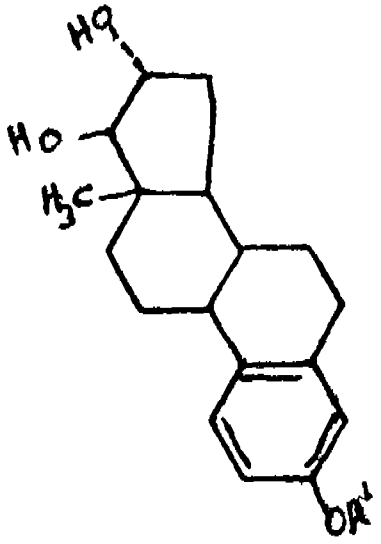
Formula (VI')

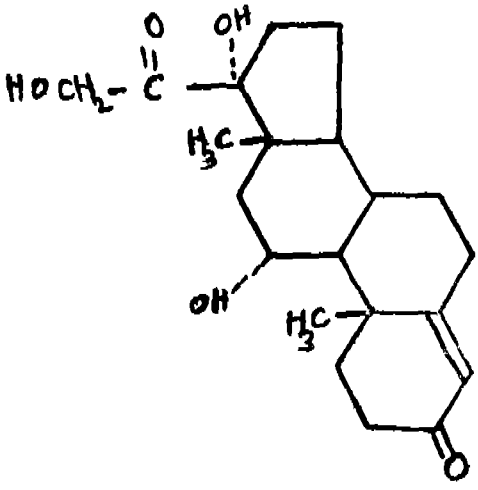


Formula (IV')

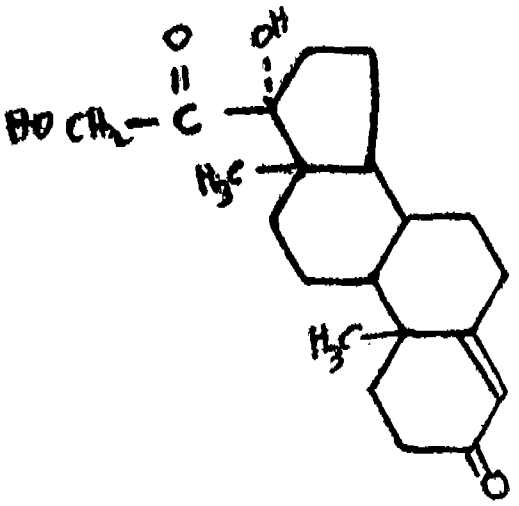


Formula (VII')





Formula (VIII')



Formula (IX')

wherein R' is a hydrogen atom, an acetyl group, a propionyl group or a benzoyl group with a binding agents selected from the compounds having the formula

X $(CH_2)_n$ COOH

X $(CH_2)_n$ COX

PX_5

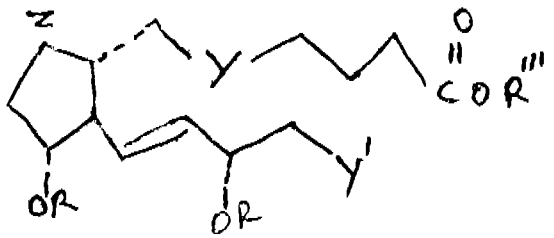
wherein n is 1 or 2 and X is halogen atoms.

B. reacting the product of (A) having a substituent at the 17- or 21- position of St or acylated St selected from the groups having the formula

$$X(CH_2)_n COO$$

X-

with a prostaglandin having the formula XI



Formula XI

wherein R is a hydrogen atom or an acetyl group; Z is—OR or=O; Y is—CH_2 CH_2—orc is—CH=CH—; Y' is—CH_2 CH_2 CH_2 CH_3 or—CH=$CHCH_2$ CH_3 and R''' is metal salt or hydrogen atom to obtain the products of the general formula X with subsequent, if necessary, acylation of the free hydroxyl groups.

Comp. Specn. 41 Pages. Drg. 11 Sheets.

CLASS 55E. 149862.

Int. Cl.-A61K 27/00.

METHOD OF PREPARING HARD, SLOW RELEASE ANTACID LOZENGE.

Applicant & Inventor : ARUN KRISHNA MITRA, OF 720 RADCLIFFE AVENUE, ST. LOUIS MISSOURI 63130, U.S.A.

Application No. 510/Cal/79 filed May 16, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

15 Claims

A method of preparing a slow release extremely hard antacid lozenge which comprises preparing a mix including 25 to 60 parts by weight of a sugar or sugar alcohol, 3 to 10 parts by weight of a gel forming swelling agent as herein described, 1 to 5 parts by weight of a water insoluble lipid material as herein described and 10 to 60 parts by weight of an antacid material as herein described the parts by weight being based on the total weight of the lozenge and thereafter subjecting the mix to compression in a tabletting machine.

Comp. Specn. 26 Pages. Drg. 1 Sheet.

CLASS $32F_{2b}$; 55 A & D_2 149863.

Int. Cl.-A01n, 9/02, C07d, 51/30.

PROCESS FOR THE MANUFACTURE OF 1-SUBSTITUTED URACILS.

Applicants : ZOECON CORPORATION, OF 975 CALIFORNIA AVENUE, PALO ALTO, CALIFORNIA 94304, UNITED STATES OFAMERICA, AND IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL HOUSE, MILLBANK, LONDON WE1P 3JF, ENGLAND.

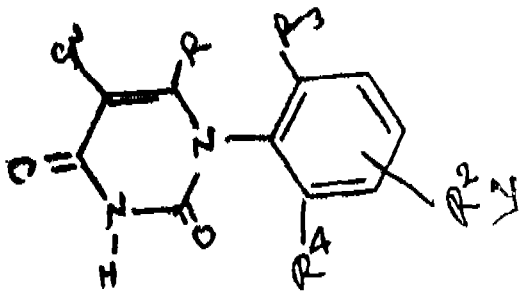
Inventors: CLIVE ARTHUR HENRICK JEFFREY NILES LABOVITZ, ROLAND THOMAS VICTOR FOX, WILLIAM GEORGE RATHMELL AND MARGARET CLAIRE SHEPHARD.

Application No. 573/Cal/79 filed June 1, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

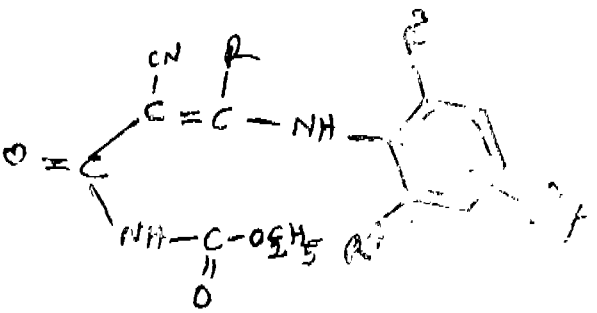
22 Claims.

A process for the manufacture of a compound of formula A'



Formula A'

which comprises the cyclization of a compound of formula (III)



Formula III

by heating in a high boiling solvent such as herein described followed by filtration to obtain a compound of formula (A'): wherein R is hydrogen methyl or ethyl : R^2 is lower alkyl, lower alkoxy, bromo, chloro, fluoro, lower haloalkyl, cyano, nitro, lower alkylthio, hydroxy, lower alkylcarbonyl, lower alkoxycarbonyl, lower haloalkoxy, cycloalkyl, cycloalkalyl, lower haloalkylthio, lower alkenyl or lower alkynl R^3 is hydrogen or independently selected from the values of R^2 : R^4 is hydrogen or independently selected from the values of R^2; and Y is zero, one, two or three; provided that when R is hydrogen, R^2 is hydrogen or bromo, and Y is one—then one of R^3 and R^4 is other than hydrogen.

Comp. Specn. 33 Pages. Drg. 1 Sheet.

CLASS 69E. 149864.

Int. Cl.-H01h 15/00.

MINIATURE SWITCH.

Applicants : DAIICHI DENSHI KOGYO KABUSHIKI KAISHA OF NO. 7-12, 2-CHOME, YOYOGI, SHIBUYA-KU, TOKYO, JAPAN.

Inventors : MASARU ISHII AND TOSHIKAZU SUZUKI.

Application No. 800/Cal/79 filed August 1, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A miniature switch comprising a sliding member provided for holding a sliding metallic ball, first and second fixed blades of contact which are formed respectively of a character L-like bent plate "a" of contact and a character L-like counter bent plate "b" of contact, bases of which plates "a" and "b" are connected to each other in such a manner that respective contacting tips of plates "a" and "b" form a fan-shape spread-out contact portion and respective bent portions of said plates and "a" and "b" are opposed to each other at a distance which is shorter than a diameter of said sliding metallic ball, a fixed contact blade mounting plate on which said first and second fixed blades of contact are secured opposite to each other in such a manner that said fan-shape spread-out contact portions, which are formed respectively of said contacting tips of said plates "a" and "b" of said blades, form a contact space provided for said sliding metallic ball, in which space said fan-shape spread out contact portions are connected with each other through said sliding metallic ball which pushes open said contact portions towards the outside respectively, and an insulating case provided for covering said fixed contact blade mounting plate, wherein said sliding member which is guided along said fixed contact blade mounting plate and said insulating case, shifts said sliding metallic ball from a free space between said plates "a" and "b" of said first fixed blade of contact to said contact space provided for said sliding metallic ball through a neck between said bent portions of said first fixed blade of contact, so that a state of switch-off is obtained when said sliding metallic ball is positioned in said free space, and a state of switch-on is obtained when said sliding metallic ball is positioned in said contact space.

Comp. Specn. 12 Pages. Drg. 2 Sheets.

CLASS-62C. 149865.

Int. Cl. D06P 3/60.

PROCESSING RAW JUTE TO DIRECTLY OBTAIN DYED JUTE FIBRES.

Applicants : INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION, OF 17, TARATOLA ROAD, CALCUTTA-700053, WEST BENGAL, INDIA.

Inventors : TAPAN KUMAR GUHA RAY, SUBHAS KUMAR CHATTERJEE AND DR. ASHIMANANDA ROY.

Application No. 1379/Cal/80 filed December 12, 1980.

Division of Application No. 525/Cal/78 filed May 15, 1978.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

2 Claims. No drawings.

A method of processing raw jute to directly obtained dyed jute fibres for spinning and weaving, comprising treating raw jute with an aqueous emulsion, stablized with a dye bath assistant such as herein described of a lubricating oil such as batching oil and a direct dye, piling so treated raw jute in conventional setting for 48 to 72 hours and cutting away root portion if un-cut jute is used.

Compl. Specn. 6 Pages. Drg. Nil.

2—67GI/82

CLASS-62A$_2$ & C. 149866.

Int. Cl. D061 3/60.

PROCESSING RAW JUTE TO DIRECTLY OBTAIN BLEACHED AND DYED JUTE FIBRES.

Applicants : INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION, OF 17, TARATOLA ROAD, CALCUTTA-700053, WEST BENGAL, INDIA

Inventors : TAPAN KUMAR GUHA RAY, SUBHAS KUMAR CHATTERJEE AND DR. ASHIMANANDA ROY.

Application No. 1380/Cal/80 filed December 12, 1980.

Division of Application No. 525/Cal/78 filed May 15, 1978.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

2 Claims. No drawings.

A method of processing raw jute to directly obtain bleached and dyed jute fibres for spinning and weaving, comprising treating raw jute with an aqueous emulsion, stabilized with one or more dye bath assistance such as herein described, of a lubricating oil such as batching oil as bleaching agent hydrogen peroxide and a dye, piling so treated raw jute in conventional settings for 48 to 72 hours and cutting away root portion if un-cut raw jute is used.

Compl. Specn. 8 Pages. Drg Nil.

CLASS-103. 149867.

Int. Cl. C23C 7/00.

PROCESS FOR PROVIDING AN ANTI-CORROSIVE PROTECTIVE COAT ON HEAT STRESSED PARTS.

Applicants : SKODA, OBOROVY PODNIK, PLZEN, CZECHOSLOVAKIA.

Inventors : VACLAV PILOUS, JAN VACLAC, EXZEN KUBES, EDUARD GOLIAS, MILAN HRYCIOW, ANGRLOV AND JIRI KASPAR.

Application No. 1265/Cal/78 filed November 22, 1978.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

2 Claims. No drawings.

Process for providing an anti-corrosive protective coat on heat stressed parts such as on walls of firing chambers of steam boilers which comprises providing by conventional method protective plasmatic coats of base layer and covering layer on the said heat stressed parts, the base layer consisting of 10 to 30% by weight of chrome and remainder being nickel and the covering layer consisting of upto 20% by weight of titanium dioxides and remaining being aluminium oxide.

Compl. Specn. 6 Pages. Drg. Nil.

CLASS 32E. 149868.

Int. Cl. C08F 15/00.

A CONTINUOUS PROCESS FOR PRODUCING A VINYL ACETATE-ETHYLENE COPOLYMER EMULSION.

Applicants : AIR PRODUCTS AND CHEMICALS, INC., AT P.O. BOX 538, ALLENTOWN, PENNSYLVANIA 18105, UNITED STATES OF AMERICA.

Inventor : WILEY EDGAR DANIELS.

Application No. 434/Cal/79 filed April 30, 1979.

Convention date April 12, 1979 (325472/79) Canada.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

11 Claims

A continuous process for producing a vinyl acetate-ethylene copolymer emulsion consisting of polymerising a reaction mixture comprising vinyl acetateethylene, water, a free radical initiator, and a protective colloid under pressure,

characterised in that said process comprises : (a) continuously charging said reaction mixture to a polymerization vessel; (b) conducting an initial polymerization of said reaction mixture in said polymerization vessel in the presence of a seed latex for a sufficient time and sufficient temperature to form a copolymer having a glass transition temperature of from minus 20° to plus 10°C and (c) continuously removing latex from the polymerization vessel at a rate commensurate with that of step (a) when the unreacted vinyl acetate content by weight of the latex is from 5-20% and then effecting post-polymerization of the unreacted vinyl acetate in the latex at an ethylene pressure of not more than about 300 psia until the reacted vinyl acetate in the latex is not more than 1% by weight.

Compl. Specn. 31 Pages. Drg. 1 Sheet.

CLASS 206E. 149869.

Int. Cl. H 05k 3/06.

A METHOD OF MAKING PLATED-THROUGH-HOLE PRINTED CIRCUIT BOARD AND A PRINTED CIRCUIT BOARD MANUFACTURED THEREBY.

Applicant : HEGDE AND GOLAY LIMITED, 'SHREE-SHYLA', KANAKAPURA ROAD, BANGALORE-560 062, KARNATAKA.

Inventors : (1) BEDU MITTER.
(2) THIMMA SRI RAMA REDDY.
(3) KODI PADMANABHA KARANTH.

Application No. 105/Mas/79 filed June 18, 1979.

Complete specification left March 10, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

5 Claims.

A method of manufacturing plated through hole printed circuit board involving the following sequence of operations wherein after the conventional tunnel or pattern plating operations of copper inside the holes as well as on the pattern, a highly dense non-porous electroless or immersion tin is deposited on the pattern, followed by stripping off the resist printed; unwanted areas on both the sides of the foils etched chemically and the electroless or immersion tin removed followed by deposition of electroless copper; solder mask pattern printed on the side of the foil followed by removal of electroless copper from undesired areas by mild etching; plating of the solderable protective metal; stripping of solder mask pattern or resist and cleaning the surface followed by printing of solder mask on solder side.

(Prov.—4 pages; Com.—7 pages; Drwgs.—4 Sheets.)

CLASS 206E 149870.

Int. Cl. H 05k 3/06.

A SELECTIVE PLATING METHOD OF MANUFACTURING PLATED THROUGH HOLE PRINTED CIRCUIT BOARDS WITH SOLDER MASK ON BARE COPPER CONDUCTORS AND A PRINTED CIRCUIT BOARD MANUFACTURED THEREBY.

Applicant : HEGDE AND GOLAY LIMITED, "SHREE-SHYLA", KANAKAPURA ROAD, BANGALORE-560 062, KARNATAKA.

Inventors : (1) VEDU MITTER
(2) THIMMA SRI RAMA REDDY.
(3) KODI PADMANABHA KARANTH.

Application No. 107/Mas/79 filed June 18, 1979.

Complete specification left March 10, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

4 Claims.

A selective plating method of manufacturing plated through hole printed circuit boards with solder mask on bare copper conductors comprising the following sequence of operations in which in a double sided copper clad laminate holes are drilled and deburred followed by deposition of electroless copper and flash copper in the hole as well as on the surface of both side foils; pattern resist is printed for plating landing areas only on either or both sides followed by electroplating of copper as per printing of resist carried out in the previous step; protective metal is electroplated followed by stripping the pattern resist printed earlier and the surface is cleaned; landless conductor patterns printed on either or both the sides of the foils followed by etching of copper from the undesired area; solder mask printed on either or both the sides and cured followed by fusing of tin lead.

(Prov.—7 pages; Com.—10 pages; Drwgs.—3 Sheets).

CLASS 206E 149871.

Int. Cl. H 05k 3/06.

A SELECTIVE PLATING METHOD OF MANUFACTURING PLATED THROUGH HOLE PRINTED CIRCUIT BOARDS WITH SOLDER MASK ON BARE COPPER CONDUCTORS AND A PRINTED CIRCUIT BOARD MANUFACTURED THEREBY.

Applicant : HEGDE AND GOLAY LIMITED, "SHREE-SHYLA", KANAKAPURA ROAD, BANGALORE-560 062, KARNATAKA.

Inventors : (1) VEDU MITTER
(2) THIMMA SRI RAMA REDDY.
(3) KODI PADMANABHA KARANTH.

Application No. 108/Mas/79 filed June 18, 1979.

Complete specification left April 10, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

4 Claims.

A selective plating method of manufacturing plated through hole printed circuit board with solder mask on bare copper conductors comprising the following sequence of operations in which in a double sided copper clad laminate applied with resist on both the sides, is printed and etched on side one, protecting side two; the resist is stripped and the surface on both the sides is cleaned; holes are drilled and deburred followed by cleaning of the surface on the pattern of both side foils; solder mask printed and cured on side one followed by deposition of electroless copper and flash plating of copper on the holes and both sides pattern resist printed on the side two; copper electroplated on all exposed areas, protective metal electroplated; resist printed on side two earlier stripped off with care not to affect the other side; unwanted copper etched and protective metal fused.

(Prov.—7 pages; Com.—10 pages; Drwgs.—3 Sheets).

CLASS 206E. 149872.

Int. Cl. H 05k 3/06.

A SELECTIVE PLATING METHOD OF MANUFACTURING PLATED THROUGH HOLE PRINTED CIRCUIT BOARDS WITH SOLDER MASK ON BARE COPPER CONDUCTORS AND A PRINTED CIRCUIT BOARD MANUFACTURED THEREBY.

Applicant : HEGDE AND GOLAY LIMITED, "SHREE-SHYLA", KANAKAPURA ROAD, BANGALORE-560 062, KARNATAKA.

Inventors : (1) VEDU MITTER
(2) THIMMA SRI RAMA REDDY.
(3) KODI PADMANABHA KARANTH.

Application No. 109/Mas/79 filed June 18, 1979.

Complete specification left October 19, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

5 Claims.

A selective plating method of manufacturing plated through hole printed circuit board with solder mask on bare copper conductors comprising a double sided copper clad laminate applied with resist on both the sides, is printed and etched on side one, protecting side two; the resist is stripped and the surface on both the sides is cleaned; a glossy stop-off resin is sprayed on side one; holes are drilled and deburred and electroless copper is plated both inside the holes and on the panel; side one is sanded to remove the electroless copper on its surface and to expose the copper pattern by partial removal of glossy stop-off resin, flash copper is electroplated in the holes and on the panel to a minimum of 5 microns and the glossy stop-off resin is stripped on side one; conductor pattern is printed on side two followed by electroplating of copper to the required thickness on the patterns of both sides and in the holes; solder mask is printed on side one and is cured and surface cleaned; solderable metal is electroplated on the terminal pads on side one and on the entire pattern on side two and followed by stripping of resist, etching, fusing the electroplated solderable metal and printing solder mask, on side two.

(Prov.—7 pages; Com.—11 pages; Drwgs.—5 Sheets).

CLASS 206E. 149873.

Int. Cl. H05k 3/06

A SELECTIVE PLATING METHOD OF MANUFACTURING PLATED THROUGH HOLE PRINTED CIRCUIT BOARD WITH SOLDER MASK ON BARE COPPER CONDUCTORS AND A PRINTED CIRCUIT BOARD MANUFACTURED THEREBY.

Applicant : HEGDE AND GOLAY LIMITED, "SHREESHYLA", KANAKAPURA ROAD, BANGALORE-560 062, KARNATAKA.

Inventors : (1) VEDU MITTER
(2) THIMMA SRI RAMA REDDY.
(3) KODI PADMANABHA KARANTH.

Application No. 110/Mas/79 filed June 18, 1979.

Complete specification left April 10, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

5 Claims.

A selective plating method of manufacturing plated through hole printed circuit board, with solder mask on bare copper conductors comprising the following sequence of operations in which a double sided copper clad laminate applied with resist on both the sides, is printed and etched on both the sides and surface cleaned; a resin coat confirming to the base resin is applied on one side; electroless copper is plated on both sides; lacquer is sprayed on the other side of the resin coated side, holes are drilled and deburred followed by deposition of electroless copper in holes and both sides; both sides are sanded to expose copper pattern for plating, followed by electroplating of copper on the patterns of both sides and in the holes; solder mask is printed on the resin coated side; protective metal is electroplated followed by stripping of lacquer other than the solder mask; light etching is done to remove electroless copper on unwanted areas and printing of solder mask on the other side.

(Prov.—8 pages; Com.—11 pages; Drwgs.—4 Sheets).

CLASS 145D. 149874.

Int. Cl. D21f 1/46.

AN IMPROVED DANDY ROLL.

Applicant : DANDY ROLLS INDIA PVT. LTD., SHED NO. A-179, PEENYA INDUSTRIAL ESTATE, PEENYA, BANGALORE-562 140, KARNATAKA.

Inventor : VARADAN ANANTHA NARAYAN.

Application No. 190/Mas/80 filed October 15, 1980.

Complete specification left February 26, 1981.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

12 Claims.

An improved dandy roll having gear teeth fitted on to its end castings, said dandy roll being supported by a pair of dandy brackets each having adjustably mounted thereon a gear means which enmesh with said gear teeth provided with the dandy roll, each said bracket comprising an arm pivoted on a base, while the free end of said arm is provided with a height adjusting means to accommodate dandy rolls of different sizes, a pair of first trunnions adjustably provided with said arm to support said dandy roll, and at least a second trunnion also provided adjustably with said arm to control the side thrust of the dandy roll.

(Prov.-5 pages; Com.-11 pages; Drwg. 1 Sheet of size 33.00 cms. by 41.00 cms).

CLASS 175H. 149875.

Int. Cl. F15b.

PISTON-CYLINDER ARRANGLMENT AND IN PARTICULAR FOR USE IN HYDRAULIC SERVO-MOTOR.

Applicants : AKTIENGESELLSCHAFT KUHNLE, KOPP & KAUSCH, OF HESSHEIMER-STR. 2, POSTFACH 265, D-6710 FRANKENTHAL PFALZ, FEDERAL REPUBLIC OF GERMANY.

Inventors : OTTO GROHROCK, THEO HEINTZ AND HERBERT ILLIUS.

Application No. 1383/Cal/78 filed December 27, 1978.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

4 Claims.

A piston-cylinder arrangement for use in hydraulic servomotor having a rod which extends longitudinally through the cylinder and on which the piston is displaceably mounted, wherein a bearing which is displaceable on the rod as a spherical or hinge bearing and the piston carries a piston ring having a part-spherical surface which bears against the wall of the cylinder.

Compl. Specn. 6 Pages. Drg. 2 Sheets.

CLASS 94E. 149876.

Int. Cl. B02C 1/02.

SWING JAW FOR A CRUSHER.

Applicants : LITTON SYSTEM, INC. OF 6701 TWO NOTCH ROAD, OF DELAWARE, U.S.A.

Inventor : GERALD ELMER KNROENING.

Application No. 561/Cal/78 filed May 25 1978.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

21 Claims.

A composite swing jaw for a crusher; comprising :

a. a first plate member having an upper area and a lower area with a face surface and a rear surface extending therebetween;

b. a plurality of main rib member positioned and disposed to extend outwardly from said rear surface of said first plate member and sized to extend between an upper location proximate said upper area and a lower location proximate said lower area;

c. barrel means, formed from a plurality of plate members secured together and to said first plate member to form with said first plate member a barrel like enclosure with an opening through which the shaft for operating the weing jaw passes, having an outer peripheral surface disposed in proximity to said first plate member proximate said upper location; and to said main rib members proximate said upper location; and

d. securing means rigidity interconnecting said first plate member, said plurality of main rib members, and said barrel means into a composite whole.

Compl. Specn. 23 pages. Drg. 8 Sheets.

CLASS 156D. 149877.

Int. Cl. F01b 21/04.

VANE-TYPE ROTARY POSITIVE-DISPLACEMENT PUMPS AND COMPRESSORS.

Applicant : BERNHARD NILS OSTABERG, OF MOROOMBA PARK, HEYFIELD, STATE OF VICTORIA, AUSTRALIA.

Inventor : BERNHARD NILLS OSTABERG.

Application No. 682/Cal/78 filed June 20, 1978.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

13 Claims.

A vane-type rotary positive-displacement pump or compressor comprising an external member cooperating with an internal member, the members being relatively rotatable about a common axis, the external member having an internal peripheral surface and the internal member having an external peripheral surface, the peripheral surface of one of said members having a circular profile and the peripheral surface of the other of said members having a sinuous profile of constant diameter, the said peripheral surfaces constituting walls of an odd number of chambers evenly spaced around said common axis, said chambers being separated from each other by lines of contact between said internal and external peripheral surfaces; a vane assembly disposed along a diametral line and slidably mounted in the member having the circular profile, said vane assembly having curved vane ends in contact with the sinuous surface such that when the members rotate relative to each other the vane ends sweep the sinuous surface and the vane assembly slides reciprocably in the member having the circular profile, each vane end reciprocating with simple harmonic motion relative to this member; and inlet and outlet ducts whereby fluid can be introduced into and withdrawn from said chambers, and wherein the sinuous profile is such that the locus of the centre of curvature of each vane end statisfies the equation :

$$\tan \phi = r_1 \frac{d\theta}{dr_1}$$

where r_1 represents the magnitude of a radius vector defining the position of the centre of curvature of each vane end relative to said axis and to a datum line passing through said axis and the location of said centre when the radial distance of this centre from said axis is least and is calculated from the equation,

$$r_1 = b + (b - a) \cos 3\theta$$

where θ represents the phase angle of the radius vector relative to said datum line,

$$\frac{d\theta}{dr_1} = -3(b-a) \sin 3\theta$$

a represents the least radial distance of said centre from said axis,

b represents the radial distance from said axis to the centre, or mean position, of the simple harmonic motion of said centre, and θ represents the angle between said radius vector and the tangent to the locus of the path of said centre, and wherein the sinuous profile satisfies the equation :

$$\cos \delta = \frac{(r_2)^2 + (r_1)^2 - R^2}{2r_2 r_1}$$

where r_2 represents the magnitude of a radius vector defining the position relative to said axis and the datum line of a second point on a line perpendicular to said tangent and displaced from said centre by a distance equal to the radius of curvature of each vane end, δ represents the phase angle of radius vector r_2 relative to the datum line, and R represents the radius of curvature of each vane end.

Compl. Specn. 23 Pages. Drg. 4 Sheets.

CLASS 98G. 149878.

Int. Cl. F24d 11/02.

THERMAL HEAT PUMP.

Applicants : EUROPAISCHE ATOMGEMEINSCHAFT (EURATOM), BATIMENT JEAN MONNET, PLATEAU DU KIRCHBERG, LUXEMBOURG.

Inventor : DR. CLAUS ADOLF BUSSE.

Application No. 882/Cal/78 filed August 10, 1978.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

10 Claims.

Thermal heat pump, characterized by a heat pipe in which the vapor passage located between the heat transfer zone to the heat supply and the heat transfer zone to the heat removal has a cross section which varies across its length and which increases the velocity of the vapor flow to begin with and then decreases it and that a further heat transfer zone with heat supply or heat removal is located in the area of the increased vapor velocity.

Compl. Specn. 12 Pages. Dr. 1 Sheet.

CLASS 187H. 149879.

Int. Cl. H04J 1/00.

IMPROVEMENTS IN OR RELATING TO FREQUENCY MULTIPLEX TELECOMMUNICATING SYSTEMS.

Applicants : SIEMENS AKTIENGESELLSCHAFT OF BERLIN AND MUNICH OF WEST GERMANY.

Inventor : HANS HOCHRATH.

Application No. 984/Cal/78 filed September 8, 1978.

Convention date 11th May, 1978 (18866/78) U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

4 Claims.

A carrier-frequency sound transmission system which has sound channels which correspond to approximately the bandwidth of three telephone channels and which are in the frequency of a basic primary frequency group of a carrier frequency communications transmission system, characterised in that the bandwidth of each sound channel is equal to about 7KHZ, a pilot tone is added to each sound channel in the audio frequency range, each sound channel is converted into the carrier-frequency position with the use of identical quadrature modulators such as used in phase relationship single sideband system, the carrier frequencies are selected such that for conversion to each transmission frequency all of the particular sound channel's signals being transmitted are spaced in frequency more than 1 KHZ from the adjacent sound channels or pilot tones.

Compl. Specn. 11 Pages. Drg. 3 Sheets.

CLASS 32E & 132B$_2$. 149880.

Int. Cl.-B01j 1/00; C08f 45/00.

PROCESS AND APPARATUS FOR THE PRODUCTION OF ADDITIVE CONTAINING SYNTHETIC LINEAR POLYMERS.

Applicants : SOCIETA' NAZIONALE INDUSTRIA APLICAZIONI VISCOSA S.P.A. OF 18, VIA MONTEBELLO, MILANO, ITALY.

Inventors : GIORGIO LAMBERTINI AND GIANFRANCO SALA.

Application No. 1010/Cal/78 filed September 14, 1978.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

14 Claims

A process for the production of additive containing synthetic linear polymer, characterized in that a fusible antistatic agent, generally constituted by a polyalkylene glycol or a mixture of polyalkylene glycols, in the form of a molten mass in an amount generally manging from 2-10% by weight with respect to the polymer or a mixture of the polymer itself with finely subdivided substances, such as carbon black, matting agents and pigments, having a high content of said solid substances and generally called "master batch" is added by injecting into the said linear polymer in the molten state, the resulting mixture is then homogenized and the homogenized mixture is recycled part by part as herein before described for utilization.

Compl. Specn. 10 Pages. Drg. 2 Sheets.

OPPOSITION PROCEEDINGS

(1)

The Opposition entered by The Associated Cement Companies Ltd., to the grant of a patent on application No. 141060 made by F. L. Smidth & Co., A/S as notified in Part-III, Section 2 of the Gazette of India, dated the 30th July, 1977 has been partly allowed and a patent has been ordered to be sealed on the application subject to amendment of the specification.

(2)

Opposition entered by Belpahar Refractories Ltd. to the grant of a patent on application No. 141909 made by Dalmia Institute of Scientific and Industrial Research and Orissa Cement filing of which was notified in the Gazette of India Part-III, Section 2, dated the 7th January 1978 has been dismissed and a patent to be sealed thereon.

(3)

The opposition entered by Pile Foundation Constructions C. (I) Pvt. Ltd., to the grant of a patent on application No. 143994 made by Council of Scientific & Industrial Research as notified in Part III, Section 2 of the Gazette of India, dated the 23rd September, 1978 has been partly allowed and a patent has been ordered to be sealed on the application subject to amendment of the complete specification.

PATENTS SEALED

140913 147083 147315 147917 148036 148072 148123 148734 148862 148863 148864 148921 148922 148960 148969 148970 148990 149004 149012 149102 149262

COMMERCIAL WORKING OF PATENTED INVENTIONS

CHEMICAL LIST NO. IV.]

The following Patents in the field of Chemical Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 146(2) of The Patents Act, 1970, in respect of Calendar year, 1980, generally on account of want of requests of Licence to work the Patented inventions.

Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of Licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name and address of Patentees	Title of the invention
1	2	3	4	5
1.	138576	08-02-1974	THE CHIEF CONTROLLER RESEARCH AND DEVELOPMENT, Ministry of Defence, Govt. of India, New Delhi, India.	A process for preparing novel composition for use in sealing seams of wooden structure.
2.	138853	30-04-1974	SADAYOSHI WATANABE, 1247-25 Miyanomori, chiro-ku, sapporo-shi, Hokkaido, Japan.	Producing paper-making pulps from grasses.
3.	140428	01-02-1974	FUJI PHOTO FILM CO. LTD. No. 210, Nakanuma Minami Minami-Ashigara-shi, Kanagawa, Japan.	Colour photographic light sensitive material.
4.	140435	15-03-1974	Do.	Do.
5.	140944	06-08-1974	KAMYR INCORPORATED, Glens Falls, State of New York, U.S.A.	A method and apparatus for producing gas from gas producing material such as coal.
6.	141183	27-12-1974	HOECHST AG., 6230 Frankfurt/Main 80, Federal Republic of Germany.	Preparation of chlorinated copper phthalocyanines.
7.	141192	16-12-1974	SUMITOMO ALUMINIUM SMELTING CO. LTD., 15 Kitama-5-chome, Higashi-ku, Osaka, Japan.	Process for continuous production of aluminium sulfate.
8.	141219	10-11-1975	SHELL INTERNATIONAL RESEARCH MAATSCHAPPIJ B.V. Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Heat exchanger for cooling hot gases.
9.	141224	24-04-1974	DR. C. OTTO & COMP, GMBH, 463, Bochum, West Germany.	Process for quenching of hot coke discharged from a coking oven.
10.	141226	03-07-1974	FIBREGLASS LTD., Prescot Road, St. Helens, Lancashire, England.	Method for producing glass fibre product.
11.	141234	18-11-1974	SNAMPROGETTI S. P. A., 16 Corso Venezia, Milan, Italy.	A process for the preparation of poly-N-hydro carbyliminoalanes.
12.	141238	04-02-1975	HOECHST AG., D 6230 Frankfurt/Main 80, F. R. GERMANY.	Process and apparatus for cleaning pellet shaped calcium hydroxide.
13.	141239	23-07-1975	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York, 10017, U.S.A.	Method of producing biologically active carbamate or urea compositions.
14.	141246	31-12-1973	I. C. I. LTD., Imperial Chemical House, Millbank, London SW 1, England.	A process for the catalytic oxyhalogenation of halogenated hydrocarbon feed stock.

1	2	3	4	5
15.	141261	05-06-1974	JOSEF MEISSNER, Bayers thalburtel 16-20, 5 Koln, 51, F. R. GERMAY.	A method of reprocessing the final acids of the nitro glycerin production.
16.	141263	18-04-1975	PFIZER INC., 235 East 42nd Street, New York, New York, U.S.A.	Preparation of a-6-deoxy-5-hydroxy-tetra cycline hydrochloride.
17.	141283	24-12-1974	TAKEDA CHEMICAL INDUSTRIES LTD., 27, Doshomachi 2 chome, Higashi-ku, Osaka, Japan.	A process for preparing cephalesprin derivatives.
18.	141298	16-09-1974	HALCON RESEARCH AND DEVELOPMENT CORPORATION, 2, Park Avenue, New York, New York 10016, U.S.A.	A process for producing maleic anhydride.
19.	141302	19-05-1973	KAMYR INC., Glens Falls, New York, U.S.A.	Method and apparatus for cellulose digesting.
20.	141329	17-12-1974	HOECHST AG., D 6230 Frankfurt/ Main 80, F.R. GERMANY.	Process and apparatus for the continuous dehydration of moist solid grannular materials such as wet coke.
21.	141332	05-03-1974	PPG INDUSTRIES INC., One Gateway Centre, Pittsburgh, State of Pennsylvania, U.S.A.	Method and apparatus for manufacturing sheet glass.
22.	141346	15-01-1974	MITSUI TOATSU CHEMICALS INC., 2-5, 3-chome, Kasumigaseki, chiyoda-ku, Tokyo, Japan.	Process for preparing coloured organic materials using assymetric thoindigoid compounds as the colouring component.
23.	141349	08-02-1974	AMERICAN CYNAMID COMPANY, Wayne, New Jersey, U.S.A.	Process for melt spinning shaped articles.
24.	141350	13-02-1974	SIEMENS AG., Berlin and Munich, West Germany.	A process for the production of elongated polyethylene structure.
25.	141354	08-05-1974	I. C. I. LTD., Imperial Chemical House, Millbank, London, England.	Method and apparatus for the treatment of liquid borne biologically degradable waste material.
26.	141367	19-03-1975	UNION CARBIDE CORPORATION, 270 Park Avenue, New, York State of New York 10017, U.S.A.	Improved protection for externally heated cast iron vessel used to contain a reactive molten metal.
27.	141398	03-04-1974	ETHICON INC., Somerville, New Jersey, U.S.A.	A method for preparing polytetramethylene, ether polyurethane urea resins.
28.	141433	06-03-1974	SAINT-GOBAIN INDUSTRIES, 62, Boulevard Victor-Huge, Nauilly-sur-Siene, France.	Method and apparatus for the production of fibrous materials.
29.	141438	04-07-1973	GENERAL ELECTRIC CO. 1 River Road, Schanectady-5, New York, U.S.A.	Abrasive bodies of finely divided cubic boron nitride crystals and a process for preparing same.
30.	141440	24-12-1973	HAYASHIBARA BIOCHEMICAL LABORATORIES INCORPORATED, No. 2-3, 1-chome, Chimoishii, Okayama-shi, Okayamaken, Japan.	A shaped solid body of pullulan ester and a method for making the same.
31.	141442	08-01-1974	HOECHST AG., D 6230 Frankfurt/ Main 80 F.R. GERMANY.	Process for compressing ketone.
32.	141443	16-01-1974	Do.	Treatment of crude azo pigments.
33.	141445	26-02-1974	TOMS RIVER CHEMICAL CORPORATION, Toms River, New Jersey, U.S.A.	Preparation of vat dyestuffs from a mixture of aminoanthraquinone derivatives.
34.	141452	23-07-1975	MEIJI SEIKA KAISHA LTD., No. 8 2-chome kyobashi chouku, Tokyo, Japan.	Process for the preparation of 9, 31, 41—triacyl ester of the antibiotic SF-837, M, substance.
35.	141454	20-11-1973	ANIC S. P. A. Via Mariano Stabile, 216 Palermo, Italy.	Process for polymerizing unsaturated compounds.
36.	141462	20-03-1974	RHONE-PROGIL, 25 Quat Poul Doumer, 92408, Courbevoie, France.	Bulk polymerisation of vinyl chloride.

1	2	3	4	5
37.	141471	12-12-1974	RCA CORPORATION, 30 Rockefeller Plaza, New York, New York 10020, U.S.A.	Method of vapor deposition.
38.	141482	13-02-1976	UOP INC., Ten UOP Plaza-Algonquin & Mt. Prospect Road, Des Plaines, Illinois, U.S.A.	A method for preparing a catalyst composition an immobilized enzyme conjugate and the catalyst composition so prepared.
39.	141487	03-11-1973	CIBA-GIEGY AG., Klybeckstrasse 141, Basle, Switzerland.	Manufacture of new-fibre-reactive dyestuffs.
40.	141500	03-06-1975	ATLANTIC RICHFIELD CO., Arco Plaza 515, 8 Flower Street, Los Angeles, State of California, U.S.A.	Production of isocyanates.
41.	141504	17-03-1976	OTISCA INDUSTRIES LTD., Post Office Box No. 211, Lifayette, New York, U.S.A.	Coal processing methods and apparatus.
42.	141519	07-05-1974	FERRO CARB AGGLOMERATION LTD., 606 Timber Lane Lake Forest, Illinois, U.S.A.	A method of producing a solid charge as atleast a part of the feed in a metal processing operation.
43.	141524	19-12-1974	MIDREX CORPORATION, One NCNB Plaza, Charlotte, North Carolina 28270, U.S.A.	Process for the continuous passivation of sponge iron particles.
44.	141533	23-09-1975	KURARAY CO. LTD., 1621, Sakarin Kurashiki city, Japan.	Preparation of 1, 1, 1-trihalogene-4-methyl-3-pentene-2-ols.
45.	141539	07-08-1975	CIBA-GIEGY OF INDIA LTD., Aarey Road, Goregaon East, Bombay-400063, Maharashtra, India.	Process for the manufacture of new pyridazines and acid addition salts and N-oxide thereof.
46.	141602	11-12-1974	HOECHST AG., 6230 Frankfurt/Main 80, F. R. GERMANY.	Preparation of trioxane copolymers.
47.	141615	19-09-1974	Do.	Preparation of monoazo pigments.
48.	141621	12-11-1975	IMPERIAL CHEMICAL INDUSTRIES LTD., Imperial Chemical House, Millbank, London SW 1, P 3 JF, England.	Manufacture of fluorinated alkanoic acid derivatives.
49.	141623	07-08-1975	HINDUSTAN LEVER LTD., Hindustan Lever House, 165-166, Backbay Reclamation, Bombay-400020, India.	Process for detoxifying of nutrient plant material containing saponins.
50.	141629	08-11-1973	LIBBEY OWENS FORD CO.,811 Madison Avenue, Toledo, Ohio, U.S.A.	Determination of optical quality of flat glass sheets.
51.	141640	19-03-1974	FUJI PHOTO FILM CO. LTD., No. 210, Nakanuma, Minami-Ashi-gara-shi, Kanagawa, Japan.	Colour photographic materials and method for preparing the same.
52.	141641	12-06-1974	GREAT LAKES CARBON CORPORATION, 299, Park Avenue, New York, State of New York, U.S.A.	Method and apparatus for cooling and dusting hot particulate material.
53.	141664	20-03-1974	CROFTSHAW (ENGINEERS) LTD., Acton Works, Bull Lane, Long Melford, Suffolk, England.	Multi-bed adsorbers.
54.	141672	13-08-1975	THE LUBRIZOL CORPORATION, P. O. Box 17100, Euclid Station, Cleveland, Ohio 44117, U.S.A.	Preparing phosphorus and sulphur containing amides and thioamides.
55.	141676	09-01-1974	CASTROL LTD., Piper's Way Swindon Wiltshire, England.	Hydraulic system containing an orthosilicate ester hydraulic fluid.
56.	141682	16-01-1974	HOECHST AG., 6230 Frankfurt/Main 80, F.R. GERMANY.	Transforming a disazo pigment into a novel physical form.
57.	141683	16-01-1974	Do.	Do.
58.	141684	16-01-1974	Do.	Do.
59.	141713	19-01-1976	PREROVSKE STROJIRNY NARODNI, PODNIK, Prerov, Czechoslovakia.	Method of cooling grannulous materials by a gaseous medium in a counter current heat exchange and apparatus for performing this method.

1	2	3	4	5
60.	141717	15-07-1976	AIKOH CO. LTD., No. 1-39, 2-chome Ikenohate Taito, ku, Japan.	A method for the desulfurization of molten-iron.
61.	141736	04-05-1974	UOP INC., Ten UOP Plaza-Algonquin & Mt. Prospet Roads, Des Plaines, Illinois, U.S.A.	Non regenerative HF alkylation process.
62.	141742	12-06-1975	HOECHST AG., D 6230, Frankfurt/ Main 80, F.R. GERMANY.	Purification of phosphoric acid.
63.	141743	09-07-1975	CHEMIE LINZ AG., St Peter Strasse 25, 4020, Linz, Austria.	Process of recovering quanidine carbonate from a dilute aqueous solutions.
64.	141744	16-07-1975	PFIZER INC. 235 East 42nd Street, New York, U.S.A.	Process for producing a new polycyclic ether antibiotic.
65.	141764	02-08-1974	THE ORCHARD CORPORATION OF AMERICA, 1154 Reco Avenue, Crestweed Missouri 63126, U.S.A.	A high pressure laminate and a method of producing the same.
66.	141768	02-08-1974	Do.	Decorative sheet for use in a laminate.
67.	141811	14-05-1974	LINDE AG., Hildaster, 2-10, 6200 Wiesbaden, West Germany.	Recovery of desired components absorbed during a special scrubbing process by the scrubbing liquid from a crude gas.
68.	141820	01-09-1975	PFIZER INC., 235 East 42nd Street, New York, State of New York, U.S.A.	Production of carboxamides of oxo-1, 2 benzothiazine 1-1-dioxides.
69.	141826	07-06-1976	DR. C. OTTO & COMP, GMBH, Bochum, West Germany.	Slag bath generator.
70.	141846	16-11-1974	EXXON RESEARCH AND ENGINEERING CO. 1900 Linden Avenue, Linden, New Jersey, U.S.A.	Process for the conversion of carbon monoxide and steam to hydrogen and carbon dioxide.
71.	141896	08-08-1974	METALLGESELLSCHAFT AG., 16, Frankfurt Am, Reiterwag 14, West Germany.	Method and apparatus for drying particulate minerals for agglomeration.
72.	141915	09-05-1974	HOECHST AG., 6230 Frankfurt/Main 80, F.R. GERMANY.	Preparing 5-oxo-carboxylic acid esters.
73.	141929	01-10-1975	PFIZER INC., 235 East 42nd Street, New York, U.S.A.	Process for preparing antibiotic substances comprising compounds 35763, 36926, 37277, and 37932 or antibiotic mixtures thereof.
74.	141940	18-02-1975	LIBBEY OWENS FORD CO. 811, Madison Avenue, Toledo, Ohio, U.S.A.	Heat treating glass-sheets.
75	141970	02-12-1974	AGROTECHNIKA NARODNY PODNIK PEDNIKONE RIADITELSTVO, Zvolen, Czechoslovakia.	Reactor for biological water treatment.
76.	141982	17-09-1975	PFIZER INC., 235 East 42nd Street, New York, State of New York, U.S.A.	Preparing carboxamides of oxo-1, 2 benzo thiozine-1, 1-dioxides.
77.	141990	30-04-1975	MITSUI TOATSJ CHEMICALS, INC., 2-5, 3-chome, Kasumi gaseki, Chiyoda-ku, Tokyo, Japan.	Method of coloring of textiles and like materials with assymetric thioindigold compounds.
78.	142000	07-12-1973	SEKJSUI KASEI HIN KOGYO K. K. No. 25 1-chome Minamikyobate-machi, Nara-shi, Nara, Japan.	Producing receptacles from thermoplastic resinfoam sheet.
79.	142076	25-05-1976	KLEEN RITE/ARUNDALE INC., 1173 Reco Avenue, St. Louis, Missouri, 63126, U.S.A.	Process and apparatus for the purification of waste water containing synthetic detergent.
80.	142077	14-12-1976	KUREHA KAGAKU KUGYO KABUSHIKI KAISHA, No. 8, Heridome-cho, 1-chome Nihanbashi, chuo-ku, Tokyo, Japan.	Preparation of antitumoriganic substances.
81.	142086	21-04-1975	AGROTECHNIKA NARODNY PODNIK PODNIKONE RIADITELSTUC, Zvolen, Czechoslovakia.	Reactor for purification of water by fluid filteration.
82.	142102	02-08-1975	CIBA GIEGY OF INDIA LTD., Aarey Road, Goregaon East, Bombay-400063, Maharashtra, India.	Process for the preparation of azocycloalkane, compounds.

1	2	3	4	5
83.	142105	25-07-1974	1. DAVID JOHN MILLIN, Bramblings, South Stoke Road, Woodcote, Reading Berkshire England. 2. MYRON GRANT HAMPTON, The Pippins, Peppard Common, Henley-on-Thames, Oxfordshire, England	Process for the manufacture of tea.
84.	142111	29-03-1974	ELKEM SPIGERVERKET A/S, Elkemhuset Middlethunsgate, 27, Oslo 3, Norway	Producing burned pellets from a chromium ore or concentrate in shaft furnace and the pellets produced thereby.
85.	142132	07-02-1975	FEDERAL-MOGUL CORPORATION, 26555, Northwestern Highway, Southfield, Michigan 48075, U.S.A.	Process for making sectionalized precision compounds.
86.	142157	14-08-1974	SIEMENS AG, Berlin and Munich, West Germany.	A cross linkable composition.
87.	142160	20-11-1974	METALLGESELLSCHAFT AG., 16, Frankfurt Am, Reuterweg 14, West Germany	Process of producing methanol.
88.	142167	03-10-1975	AMERICAN CYANAMID COMPANY, Wayne, New Jersey, U.S.A.	Manufacture of 1, 2-dimethyl-3, 5-diphenyl pyrazolium methylsulfate.
89.	142177	24-03-1975	ISHIKARA SANGYO KAISHA LTD, 11/1 Edoberi 1 chome, Nishi ku, Osaka, Japan	Producing titanium tetra chloride.
90	142181	20-03-1974	GENERAL ELECTRIC CO., River Road, Schemectady-5, New York, U.S.A	Abrasive cubic boron nitride material and method of preparing same.
91.	142199	29-01-1975	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., Carel Van Bylandtlaan 30 The Hague, The Netherlands.	Process for the preparation of a gas containing hydrogen and carbon monoxide.
92.	142203	15-04-1975	UOP INC., Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	A process for the catalytic hydrodesulfurization of an asphaltene containing hydrocarbonaceous chargo stock.
93.	142214	04-12-1975	IMPERIAL CHEMICAL INDUSTRIES LTD., Imperial Chemical House, Millbank, London, SW 1P 3 JF England.	Manufacture of 2-chloro-1, 2, 2 trifluoroethyl difluoromethyl ether.
94.	142223	09-05-1974	INCO EUROPE LTD., Thames House, Mill bank, London, SW 1, England.	Process for preparing an alloy.
95.	142236	22-08-1974	MITSUBISHI RAYON CO. LTD., 8, Kyobashi 2-chome, chuo-ku, Tokyo, Japan.	A process for preparing an impact resistant thermoplastic graft copolymer.
96.	142242	27-11-1974	HOECHST AG., 6230 Frankfurt/Main 80, F. R GERMANY.	Modification of the process for preparing copper phthalocyanine pigments of the α-modifications.
97.	142252	22-07-1975	GENERAL ELECTRIC CO., 1 River Road, Schemectady, New York, U.S.A.	Method of producing oriented silicon iron sheet material with Boron addition.
98.	142254	10-10-1975	AMERICAN HOME PRODUCTS CORPORATION 685, Third Avenue, New York, 10017, New York, U.S.A.	Production of novel decapeptides.
99.	142264	27-04-1974	FIBREGLASS LTD., Prescot Road, St. Helens, Lanchashire, England.	Production of glass fibres.
100.	142287	25-01-1974	PULLMAN INCORPORATED, 200 South Michigan Avenue, Chicago, Illinois, U.S.A.	Producing high strength reducing gas suitable gas for reducing metallic ores.
101.	142289	19-04-1974	SUN OIL CO., 1608 Walnut Street, Philadelphia, Pennsylvania, U.S.A.	A process for reducing the concentration of dissolved by-product alkali-metal or ammonium thiosulfate or sulfate salts in aqueous H_2S removal systems
102.	142295	24-07-1974	HOECHST AG., 6230 Frankfurt/Main 80, F. R. GERMANY.	Preparing reactive xanthene dyestuffs.

1	2	3	4	5
103.	142296	24-07-1974	HOECHST AG, 6230 Frankfurt/Main 80, F. R. GERMANY	Preparing reactive xanthene dye foods.
104.	142311	08-11-1974	Do.	Process and device for drying synthetic fibrous material.
105.	142322	26-08-1975	CHINOIN GYOGYSZER ES VEGYESZETI TERMEKER GYARA RT., Utca 1-5, Buddapest II, Hungary.	Preparation of new reactive pharmaceutic acid cephalosporanic acid derivatives
106.	142326	05-12-1974	THE LUBRIZOL CORPORATION, Box 17-100 Euclid Station, Cleveland, Ohio 441177, U.S.A.	Preparing phosphorous nitrogen and sulfocontaining lubricant additives.
07.	142330	19-06-1975	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process and apparatus for the gasification of oils.
108.	142347	30-09-1974	EDWARD KOPPELMAN, 424, Bergame Drive Fucine, California, U.S.A.	Process and apparatus for seasoning wood
109.	142357	18-06-1975	THE DIRECTOR ALL INDIA INSTITUTE OF MEDICAL SCIENCE, Ansari Nagar, New Delhi-16, India.	A thermostabilized analgesia inhaler.
110.	142360	30-09-1975	IMPERIAL CHEMICAL INDUSTRIES LTD, Imperial Chemical House, Millbank, London, SW 1, England.	Treatment of biologically degradable material
111.	142370	16-07-1974	THE GOODYEAR TIRE & RUBBER CO., 1144 East Market Street, Akron, Ohio, U.S.A.	Preparing a polyurethane shock absorbing unit suitable for use in a railroad draft gear.
112.	142374	11-11-1974	DR. C. OTTO & COMP GMBH, 9, Bochum, West Germany.	Process and apparatus for removing ammonia from gases particularly from coke oven gases.
113.	142380	31-03-1976	IMPERIAL CHEMICAL INDUSTRIES LTD., Imperial Chemical House, Millbank, London SW 1, England.	A method and an apparatus for solid liquid separation.
114.	142383	18-06-1976	METALLGESELLSCHAFT AG, 16 Frankfurt Am, Reuterweg 14, West Germany.	Feeder for a reactor for the pressure gasification of coal.
115.	142394	24-04-1974	DR. C. OTTO & COMP. GMBH, 9, Bochum, West Germany.	A process for removing gaseous ammonia, hydrogen sulphide and hydrogen cyanide forming part of gas from coke plant and the like.
116.	142417	24-04-1974	Do.	Process for the removal of ammonia hydrogen sulphide and hydrocyanic acid from coke oven gas.
117.	142433	10-12-1976	EDWARD KOPPELMAN 4424, Bergamo Drive, Eucinok, California 91316, U.S A.	Process for upgrading lignitic-type coal as a fuel.
118.	142436	31-03-1975	SOLVAY & CIE, Rue du Prince Albert 133, B-1000, Brussels, Belgium.	Manufacture of salts of organic or inorganic bases and polyalphahydroxy acrylic acids.
119.	142437	27-05-1975	DEGUSSA, 9 Weiss Franen Strasse, Frankfurt (main) F.R. GERMANY.	Procedure for manufacturing 3, 6-di-(2-methyl mercapto-ethyl)-2, 5, piperazindione.
120.	142439	23-10-1975	MITSUI TOATSU CHEMICALS INC. No. 2-5, Kasumigaseki-3, chome, chiyoda ku, Tokyo, Japan.	Process for recovering ammonia and carbon dioxide from water vapour generated in concentrating an aqueous urea solution.
121.	142454	22-04-1977	UNION CARBIDE INDIA LTD, 1, Middleton street, Calcutta-700071, India.	Method for the production of activated manganese dioxide.
122.	142466	13-08-1974	SOLVAY & CIE, Rue du Prince Albert 33, B-1050, Brussels Belgium.	Process for the low pressure polymerization of olefins in the presence of solid catalytic complexes.
123.	142467	24-09-1974	SUN VENTURES INC., 100 Matsonford Road, Rodnor, Pennsylvania, 19087, U.S.A.	Catalytic ammoxidation process

PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents

No	*Title of the invention*

143650 (18-11-76) An improved process for the production of 1, 2-dichloro ethane.

143741 (17-03-76) A method of curing polyamino phenol epoxy resin.

143822 (14-08-75) Process for the purification of crude polyhalo copper phthalocyanines.

143853 (15-01-77) Process for dyeing cellulose fibers with water insoluble azo dyestuffs produced on the fibers

143878 (29-10-75) A process for the manufacture of sulphur from pyritelerrous shale.

RENEWAL FEES PAID

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114232 114246 115207 115406 115439 115802 117536 118823
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CESSATION OF PATENTS

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105613 105616 105629 105655 110095 134437 138483 145647
146022

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 150766. Regal Industrial Corporation, a registered partnership firm of Room No. 122, Bharat Industrial Estate, 1st floor, Tokersi Jivraj Road, Sewri, Bombay-400015, Maharashtra. "Briefcase Locks". May 13, 1981.

Class. 1. No. 150767. Regal Industrial Corporation, a registered partnership firm of Room No. 122, Bharat Industrial Estate, 1st floor, Tokersi Jivraj Road, Sewri, Bombay-400015, Maharashtra. "Briefcase Locks". May 13, 1981

Class. 1. No. 150841 Figurette Private Limited of 75, Nehru Road, Behind Centaur Hotel, Vile Perle (East), Bombay-400099, Maharashtra, India. "Octagon shaped geyser" June 2, 1981.

Class. 3. No. 150773. Tobu Enterprises Pvt. Ltd. of 8/29, Kirti Nagar Industrial Area, New Delhi-110015, India, an Indian Company. "Front Basket for bicycles/tricycles". May 14, '81

Class 3. No 150840. Figurette Private Limited of 75, Nehru Road, Behind Centaur Hotel, Vile parle (East), Bombay-400099, Maharashtra, India. "A square shaped geyser". June 2, 1981.

Class. 3 No 150844. Figurette Private Limited of 75, Nehru Road, Behind Centaur Hotel, Vile parle (East), Bombay-400099, Maharashtra, India. "Oval shaped geyser". June 2, 1981.

Class 3. No. 150593. Navbharat Radio Agencies of 350, Lamington Road, Bombay-400007, Maharashtra, Indian Partnership Firm "Transistorised radio set". March 24, 1981.

Class. 3 No. 150772. Tobu Enterprises Pvt. Ltd. of 8/29, Kirti Nagar Industrial Area, New Delhi-110015, India, an Indian Company. "Wheel of Toy cars and bicycles". May 14, 1981.

Class 3. No. 150962. S. Aftab Ahmad Iqbal Ahmed of 2074, Mohalla Rodgaran, Lal Kuan, Delhi-110006. "Nail". July 2, 1981.

Class. 3. No. 151334. Rogers & Company Limited of 64, Mirza Galib Marg, Byculla, Bombay-400008, Maharashtra, India. "Bottle". November 13, 1981

Class 3. No. 151033. Rumi Plastics, 8A, Indian Metal & Forging Rolling Mills Compound, Lal Bahadur Shastri Marg, Vikhroli (West), Bombay-400083, Maharashtra, Indian Partnership Firm. "Jerry Can". July 25, 1981.

Class. 3 No. 151032. Rumi Plastics of 8A, Indian Metal & Forging Mills, Compound, Lal Bahadur Shastri Marg, Vikhroli (West), Bombay-400083, Maharashtra, an Indian Partnership Firm. "Bottle". July 25, 1981.

Class. 3. No.151052. Gecko Industries, an Indian partnership concern of B-63, Mayapuri Industrial Area, Phase-I, New Delhi-110064, "Vibration free foundation for machines" July 31, 1981.

Class. 3 No. 151110. Dilip Chhabria of C-4, Giri-Raj, Altamount Road, Bombay-400026, Maharashtra, India. "Wiper for automobiles". August 20, 1981

Class. 3. No. 151275 Laboratories Vifor (India) Pvt Ltd. of 85, Dr Annie Besant Road, Worli, Bombay-400018, Maharashtra, India. "Bottles", October 28, 1981.

Class 3 No. 150645. Indo-Japanese Industries Ltd. of 14, Canal Street, Calcutta-700014 (West Bengal), "Cycle Horn". April 4, 1981.

Class 3 No. 150641. M. I. Sports of Basti Nau, Jullundur-2, Punjab, India, partnership firm. "Cork sheet for cricket balls, hockey balls or the game ball". April 2, 1981.

Class 3. No. 150311. Pall Corporation of New York, U.S.A. of Glen Cove, New York, U.S.A. "Filter assembly". January 21, 1981.

Class 3 No. 150706 The Delhi Cloth & General Mills Company Limited or D.C.M. Chemicals Works of Shivaji Marg, P.O. Box No. 6219, New Delhi-110015, India, an Indian Company. "Container". April 27, 1981.

Class 3. No 150776 Enkay (India) Rubber Company Pvt. Ltd of 2/8, Roop Nagar, Delhi-110007, an Indian Company. "Rubber Mats". May 15, 1981.

Class 3 No. 150870 Shako Plastic of Gujarat Industrial Compound, Tilak Nagar, Off Aarey Road, Goregaon (East), Bombay-400063, Maharashtra, Indian sole proprietory firm "Mirror with comb" June 4, 1981

Class 3. No. 151354. Deep Industries of 208, 'Kiran', 11th Road, Khar, Bombay-400052, Maharashtra, India. "An Opener". November 19, 1981.

Class 3. No. 150868. Shako Plastics of Gujarat Industrial Compound, Tilak Nagar, Off Aarey Road, Goregaon (East), Bombay-400063, Maharashtra, Indian sole proprietory firm. "Plastic cover". June 4, 1981.

Class 3. No. 150965. Trinity Products of Acme Estate, D-22 & 23, 3rd floor, Sewree (East), Bombay-400015, Maharashtra, an Indian Partnership Firm. "Feeding Bottle". July 4, 1981.

Class 3. No. 150780. Nishant Mitrasen Mahimtura, Indian National, of 'Chandan', 62-B, Dr. G. Deshmukh Marg, Bombay-400036, Maharashtra. "Dispenser for liquids". May 16, 1981.

Class 3. No. 150386. Lakme Limited of Bombay House, Homi Mody Street, Fort, Bombay-400023, Maharashtra, India. "Transparent Receptor Trays". February 6, 1981.

Class. 3. No. 151363. B. K. Products of 39, Radha Madhab Saha Lane, Calcutta-700007. "Container". November 24, 1981.

Class 3. No. 151364. B. K. Products of 39, Radha Madhab Lane, Calcutta-700007 "Container". November 24, 1981.

Class. 3. No. 150577. Bengal Fancy Products of 12, Bibi Bagan Lane, Calcutta-700015 (West Bengal), Indian Proprietory Firm. "Mirror". March 21, 1981.

Class. 3. No. 150578. Bengal Fancy Products of 12, Bibi Bagan Lane, Calcutta-700015 (West Bengal). Indian Proprietory Firm. "Mirror". March 21, 1981

Class. 3. No. 150575. Bengal Fancy Products of 12, Bibi Bagan Lane, Calcutta-700015 (West Bengal). Indian Proprietory Firm. "Mirror". March 21, 1981.

Class 3 No. 150651. Malbros Industries of 1816, Chandni Chowk, Delhi-6, Indian Partnership Concern "Executive Ash Tray". April 6, 1981.

Class. 3. No. 150762. Fareed Toys, Indian Partnership Concern of Gali No. 13, New Seelampur, Zafrabad, Delhi. "Helicopter (Toy)". May 13, 1981.

Class. 3. No. 150360. The Gillette Company of U.S.A. of Prudential Tower Building, Boston, Massachusetts. U.S.A. "Razor". February 3, 1981.

Class 3 No. 150348. Paragon Plastic Industries of Block A, Plot No. 78/1, Wazirpur Industrial Area, Delhi-110052, an Indian sole proprietory concern "Bowl". January 30, 1981.

Class 3. No. 150715. Roplas (India) Limited, an Indian Company of 145, Bombay Poona Road, Pimpri Poona-411018, Maharashtra, India. "A Vehicle" May 2, 1981.

Class 3 No. 150814. Phiroze Sethna Private Limited of Royal Insurance Building, 14, Jamshedji Tata Road, Bombay-400020, Maharashtra. "Water Filter". May 26, 1981.

EXTENSION OF COPYRIGHT FOR THE SECOND PERIOD OF FIVE YEARS

Nos 145451 & 143988	.. Class 1
No. 145179, 145448, 144965, 144001 and 144720	.. Class 3.
Nos. 142859, 144966	. Class 4.
No. 145289	.. Class 10.

EXTENSION OF COPYRIGHT FOR THE THIRD PERIOD OF FIVE YEARS

Nos. 138937 & 139140	.. Class 1
Nos 140020, 139467, 144001, 139123, 139110, 138470 & 138439	.. Class 3.
No. 144341	.. Class 4.

S. VEDARAMAN
Controller-General of Patents, Designs and Trade Marks

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